



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.
(sponsored by government of Kerala & aided by govt. of India)
Office: Pathirappally, Alappuzha, Kerala, India - 688 521

Phone : 477 2258012
:477 2258665
Fax : 0477 2258012

Website : www.homcokerala.com

Email : homcokerala@gmail.com

Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	Tablet – Second Floor
Equipment and Code No.	:	ELECTRIC PROCELAIN KHARAL (TRITURATING MACHINE)
Name of Work	:	Supply, Installation, Commissioning & Validation of cGMP model ELECTRIC PROCELAIN KHARAL (TRITURATING MACHINE) for Dry Material at M/s. HOMCO – Kerala
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	14 Nos.



CONSULTANT : M/S. KNACK TECHNOCRATS

42, AVINASH, SEVEN BUNGALOWS, JAY PRAKASH ROAD, ANDHERI (W), MUMBAI – 400 053
TEL. NO. : 022-2636 1629, Email : infoknack@gmail.com



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ELECTRIC PROCELAIN KHARAL (TRITURATING MACHINE) FOR DRY MATERIAL

ANNEXURE – I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Scope	: Supply, Installation, Commissioning & Validation of cGMP model <i>ELECTRIC PROCELAIN KHARAL</i> (TRITURATING MACHINE) for Dry Material and all the items which is required to run the machine along with connecting accessories, cables etc. at M/s. HOMCO –Kerala
Machine	: <i>ELECTRIC PROCELAIN KHARAL</i> (TRITURATING MACHINE) for Dry Material
Model	: *
Type	: Electric Type, Semi Automatic*
Capacity (Max.)	: 5 kg working capacity of Lactose powder*
Kharal Size	: Porcelain of 400 MM dia (16") *
Timer	: Built in Automatic Timer 0-60 minutes *
<ul style="list-style-type: none">• The Scraper blade made of stainless Steel (SS 316) is provided with scrapper arm• Shielded from AIR BORNE CONTIMNANTS by transparent Perspex cover• Perspex cover openable at top and front portion• Holder Switch to be provided for continuous untamed operation	



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*** To be specified and confirm by the supplier as per their equipment design**



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ANNEXURE – II : cGMP FEATURES

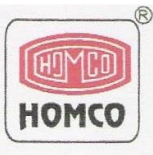
DESCRIPTION		
(To be specified by the supplier, if any variation)		
MOC		
Kharal and Pestle	:	Porcelain (white ceramic ware)
Scraper blade	:	SS 316
Pestle Handle	:	SS 304
Outer Body cover	:	SS 304
<p>❖ Other Non-Contact Parts: SS 304 *</p> <p>❖ Any gasket: Food grade *</p>		
Finish	:	Matt Finish
<ul style="list-style-type: none">▪ The equipment should be smooth finished without any sharp edges and crevices.▪ The body is fully enclosed from all sides.		

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ANNEXURE – III : OPERATIONAL FEATURES

DESCRIPTION

(To be specified by the supplier, if any variation)

ELECTRIC PROCELAIN KHARAL should be glazed outside but with inside grinding surface unglazed as is the grinding end of Pestle is used extensively for mixing and grinding of Homeopathic medicine.

The machine should meet the demand for a labour saving device for grinding and mixing. The base should be strong and attractively finished upon which Mortar revolves and forth in a pattern reaching all parts of mortar. The Pestle is held firmly in weighted Pestle head. Arm of Pestle mechanism has hinged. Built in Automatic Timer 0/60 mts.

And "Holder" Switch to be provided for continuous untamed operation. The Scrapper blade made of stainless Steel / Teflon is provided with scrapper arm. Sample is shielded from AIR BORNE CONTIMNANTS BY transparent Perspex cover.

After the material has been grounded, the Pestle holder is raised and Plate holding the Motor is lifted off so that the contents can be emptied and Mortar Brushed out or sterilized.

*** To be specified and confirm by the supplier as per their equipment design**



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ANNEXURE – V : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230V / 415V
Total Power Consumption	:	*
Motor Details with RPM	:	*
Gear Box Details (If any)	:	*
VFD Details (If any)	:	*
PLC and HMI details	:	*
Tower Lamp	:	*
Starter	:	*
Major Cabling details		
For main supply (In client's scope)	:	*
For Main drive motor	:	*
End connection details	:	MCB or Socket should be with equipment
Earthing requirement	:	Arrangement should be with system
An Isolator Circuit breaker	:	To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cable length with equipment	:	*
<i>Any other detail not mentioned above, also to be included.</i>		
Client will provide & connect the required cable in to vendor's panel. From machine panel to machine and its other accessories to be supplied and connected by vendor at site.		



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- Wiring between Panel and the Machine is in the Scope of Vendor. The exact measurements shall be taken by visiting the site (If applicable).
- The Incomer to the Operating Panel shall be provided by HOMCO, however any Cable Trays or SS 304 Conduits required for the same shall be provided by the Vendor (If applicable).
- Cable routing from Operating Panel to the Machine shall be done as per cGMP i.e. routing through Cable Trays outside Clean Room Areas and SS 304 Conduits inside Clean Room Areas by the Vendor (If applicable).
- All the Component Makes should match the Approved Makes list provided. Any deviation from this should be documented and communicated to HOMCO/Consultant.
- All Calibration Certificates are to be produced during Installation of Machine, without which the Installation is deemed incomplete. All the Certificates should be Traceable to National / International Standards.
- The Validity of Calibration shall be minimum 9 months and maximum 12 months from the date of Installation.
- All the Signal Cables should be shielded to avoid interference.
- Complete Earthing of Equipment.
- Complete covering of Electrical Cables and Other Connections.



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ANNEXURE – VI : SAFETY FEATURES

DESCRIPTION

(To be specified by the supplier, if any variation)

In the event of equipment malfunction or stoppage of utilities, the unit must contain all necessary protection devices to ensure that equipment and product remain in safe condition.

*

Equipment settings should not get disturbed due to power failure. *

Equipment should not restart without human intervention. *

Lubricant should not come in product contact. *

Electrical wiring must be concealed*

ANNEXURE – VII : CLEANING TECHNIQUE

DESCRIPTION

(To be specified by the supplier, if any variation)

Mode of machine cleaning : *

Use of Lubricants : *

All contact parts should be easily dismantled and cleanable.

Easy washing and cleaning facility should be available

Drain points: Vendor should specify the pipe size and location of drain points if required as per any drain requirement (If applicable). *

*** To be specified and confirm by the supplier as per their equipment design**



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ANNEXURE – VIII : UTILITY REQUIREMENT

DESCRIPTION (To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non-Lubricated *
Chilled Water	:	*
Nitrogen	:	*
Cooling water	:	*
Any other	:	*

*** To be specified and confirm by the supplier as per their equipment design with pressure and flow rate and pipe size require.**

ANNEXURE – VIII : PHYSICAL DETAILS

DESCRIPTION (To be specified by the supplier, if any variation)		
Dimension (In mm)	:	*
Floor Space	:	*
Net Weight (In Kgs.)	:	*
Type of Packing	:	*
Case Dimension (In mm)	:	*
Gross Weight (In Kgs.)	:	*
Foundation Details	:	*, if applicable

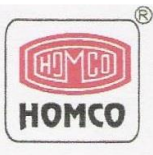
*** To be specified and confirm by the supplier as per their equipment design**



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ANNEXURE – IX : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS

DESCRIPTION

(To be specified by the supplier, if any variation)

- Optional Items (If any, Vendor should include and provide the list with rate during tendering) *
 - Recommended Spares along with list & quantity (Vendors should submit with tender) *
 - If any items required but not included in URS, should be mentioned and submitted with unit rate and quantity, during tendering (And it can be informed during pre-bid meeting or finalization of bid.) *
 - ❖ Details of Bought out components to be specified.
- Any other ancillary or accessories or optional items not mentioned above also to be quoted.

ANNEXURE – X : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for the Installation, Operation, Maintenance and Cleaning of all the Equipment included in the Ointment Manufacturing Plant shall be provided by vendor and training record will be documented.
- Vendor shall support client in execution of all the Qualification Phases. *

ANNEXURE – XI : APPROVED MAKES

Motor: Crompton / Kirloskar / Hindustan

: *

- ❖ **Any other components, not mentioned above, to be specified by the vendor.**
- ❖ **All the Component Makes should match with the Approved Makes listed above. Any deviation from this should be documented and communicated to HOMCO and Pharma Consultant.**



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ANNEXURE – XII : DOCUMENTATION

List of all Documents to be supplied along with equipment [AS APPLICABLE]

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings (GA drawing)	2 sets	
7	List of instruments	2 sets	
8	Calibration certificates	2 sets	
9	Warranty / Guarantee	2 sets	
10	List of all components with referencing	2 sets	
11	Civil foundation drawings (If required)	2 sets	
12	Pre installation requirements	2 sets	
13	Installation requirements	2 sets	
14	Installation manual	2 sets	
15	Technical literature, data sheets and equipment catalogues	2 sets	
16	IQ, OQ, DQ and PQ documents.	2 sets	



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ANNEXURE – XIII : TERMS AND CONDITIONS

Delivery Period	:	*
Payment Terms	:	As mentioned in tender.
Packaging and Forwarding	:	By Vendor
Un- loading at site	:	By vendor /Supplier (If required, help for the arrangements of unloading can be done by client) Installation in position by the vendor under the client's supervision
Taxes / GST	:	*
Material for Trial	:	To be arranged by client
Installation and Commissioning	:	By Vendor
Submission of documents and drawings		
Response to URS and submission of quotation	:	Within 1 week
Submission of detail functional design specification and schematic drawings	:	Within a week after order finalization
Submission of FAT/SAT specification	:	2 weeks before FAT
Submission of DQ, IQ, OQ, PQ documents	:	With equipment delivery
Final Drawings / Diagrams	:	Within one week of receiving PO
The supplier should notify the end user 2 weeks in advance of the beginning of FAT		
Catalogue, Equipment drawing, List of clients and year of establishment to be submitted alongwith quotation.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

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ANNEXURE – XIV : ABBREVIATION

1.	URS	:	User Requirement Specification.
2.	HOMCO	:	Kerala State Homeopathic Co-operative Pharmacy Ltd.
3.	DQ	:	Design Qualification
4.	IQ	:	Installation Qualification
5.	OQ	:	Operational Qualification
6.	PQ	:	Performance Qualification
7.	SS	:	Stainless Steel
8.	RHS	:	Right Hand Side
9.	MOC	:	Material of Construction
10.	KW	:	Kilo Watt
11.	HP	:	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP	:	Current Goods Manufacturing Practices
15.	O&M	:	Operation and Maintenance
16.	GA	:	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD	:	Head of Department
19.	QA	:	Quality Analysis
20.	NMT	:	Not more than
21.	VFD	:	Variable frequency drive

Any other details, not mentioned in Annexure I to XI, to be specified in the quotation/specification by the vendor.



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